

CLAIMS

1. An engine starting apparatus comprising, a power generator  
which is directly connected with an engine output shaft, and an ignition  
5 device which is controlled by a microcomputer using electricity  
output from the power generator as a power supply,

wherein the engine starting apparatus further comprises a  
humanly operative starting device which rotates a flywheel connected  
to the output shaft of the engine,

10 the engine starting apparatus further comprises an initial  
igniting function for generating ignition instructions when preset  
time is elapsed after a reference signal of an engine rotation position  
is first input to the microcomputer after the microcomputer starts  
up by the electricity output from the power generator operated by  
15 the humanly operative starting device.

2. The engine starting apparatus according to claim 1, wherein  
the preset time is set such that the ignition instructions are  
generated with ignition angle which is lagged from ignition angle  
20 used at the time of rating operation when the engine revolution  
number by the operation of the humanly operative starting device  
is predetermined lowest starting revolution number.

3. The engine starting apparatus according to claim 1, wherein  
25 after the microcomputer generates the ignition instructions by the  
initial ignition function, the ignition instructions are generated

at ignition angle corresponding to the engine revolution number.

4. The engine starting apparatus according to any one of claims  
1 to 3, wherein the ignition device ignites at ignition angle  
5 corresponding to the engine revolution number.